



Secret

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Broy et al. Application No.: 09/955,791 Filed: September 19, 2001

For: ELECTROCHEMICAL CELL BUBBLE DETECTION

Box Missing Part U. S. Patent and Trademark Office P.O. Box 2327 Arlington, VA 22202

EXPRESS MAIL CERTIFICATE

"Express Mail" label number ET793308776US

Date of Deposit November 28, 2001

I hereby certify that the following attached paper or fee

COMPLETION OF FILING REQUIREMENTS-NONPROVISIONAL APPLICATION COPY OF PTO FORM-1533 DECLARATION STATEMENT BY ATTORNEY 3.73(b) STATEMENT AND COPY OF EXECUTED ASSIGNMENT CHECK PAYABLE TO PTO

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Box: Missing Part, U. S. Patent and Trademark Office P.O. Box 2327, Arlington, VA 22202.

(Typed or printed name of person mailing paper or fee)

(Signature of person/mailing paper or fee)

NOTE:

Each paper must have its own certificate and the "Express Mail" label number as a part thereof or attached thereto. When, as here, the certification is presented on a separate sheet, that sheet must (1) be signed and (2) fully identify and be securely attached to the paper or fee it accompanies. Identification should include the serial number and filing date of the application as well as the type of paper being filed, e.g. complete application, specification and drawings, responses to rejection or refusal, notice of appeal, etc. If the serial number of the application is not known, the identification should include at least the name of the inventor(s) and the title of the invention.

NOTE:

The label number need not be placed in each page. It should, however, be placed on the first page of each separate document, such as, a new application, amendment, assignment, and transmittal letter for a fee, along with the certificate of mailing by "Express Mail." Although the label number may be on checks, such a practice is not required. In order not to deface formal drawings it is suggested that the label number be placed on the back of each formal drawing or the drawings be accompanied by a set of informal drawings on which the label number is placed.

(Express Mail Certificate [8-3])

OIP	E C
MOV 28	hereby sells, assigns and transfers to
FADER MADE	ASSIGNEE:
MADE	Teledyne Technologies Incorporated 2049 Century Park East Address
	(a Delaware corporation) Los Angeles, CA 90067 Nationality
	and the successors, assigns and legal representatives of the ASSIGNEE
	(complete one of the following)
	★ the entire right, title and interest
	an undivided percent (%) interest for the United States and its territorial possessions
	(check the following box, if foreign rights are also to be assigned)
	and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled: ELECTROCHEMICAL CELL BUBBLE DETECTION
	(check and complete (a), (b), (c), (d), (e), (f) or (g))
	and which is found in
	(a) U.S. patent application executed on even date herewith
	(b) U.S. patent application executed on
	(c) U.S. provisional application naming the above inventor(s) for the above-entitled invention
	Express mail label no.:
	Mailed:
	☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
	(d) U.S. application no.:09/955,791 filed on September 19, 2001
	(e) International application no. PCT // filed on/
•	(f) U.S. patent noissued
	A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.
	(also check (g), if foreign application(s) is also being assigned)
	(g) and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re- examination thereof.



United States Parent and Trademark Office

COMMISSIONER FOR PATENTS UNITED STATES PATENT AND TRADEMARK OFFICE WASHINGTON, D.C. 20231

www.uspto.gov

APPLICATION NUMBER

FILING RECEIPT DATE

FIRST NAMED APPLICANT

ATTORNEY DOCKET NUMBER

09/955,791

TA ARADEMARY 09/19/2001

NOV 2 8 2001

Stephen H. Broy

010331

26285 KIRKPATRICK & LOCKHART LLP 535 SMITHFIELD STREET PITTSBURGH, PA 15222

CONFIRMATION NO. 9719 FORMALITIES LETTER *OC000000006929474*

Date Mailed: 10/18/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(I) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 130.

A copy of this notice MUST be returned with the reply.

Customer Service Center

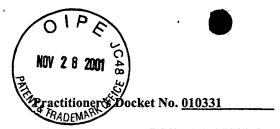
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

12/03/2001 SZEWDIE1 00000011 09955791

01 FC:105

130,00 OP



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Broy et al. Application No.: 09/955,791 Filed: September 19, 2001

For: ELECTROCHEMICAL CELL BUBBLE DETECTION

Box Missing Part U. S. Patent and Trademark Office P.O. Box 2327 Arlington, VA 22202

COMPLETION OF FILING REQUIREMENTS

	— NON	PROVISIONAL APPLICATION	
	(check a	nd complete this item, if applicable)	
I. 🛚	This replies to the Notice to File Missing Parts of Application (PTO-1533) mailed October 18, 2001		
NOTE:	NOTE: If these papers are filed before the office letter issues, adequate identification of the original papers made, e.g., in addition to the name of the inventor and title of invention, the filing date based on the Mail" procedure, the serial number from the return post card or the attorney's docket number added.		
	A copy of the Notic Granted (Form PTC	e to File Missing Parts of Application—Filing Date 0-1533) is enclosed.	
NOTE: The PTO requires that a copy of Form PTO-1533 be returned with the response to parts to the application.		O-1533 be returned with the response to the notice to file missing	
		;	
		_	
	CERTIFICATE OF MAILIN	IG/TRANSMISSION (37 C.F.R. 1.8(a))	
I houshu		, , , , , , , , , , , , , , , , , , ,	
1 nereby	y certify that this correspondence is, o	in the date shown below, being:	
	MAILING	FACSIMILE	
deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Box: Missing Part, Commissioner for Patents, Washington, DC 20231.		transmitted by facsimile to the Patent and Trademark Office.	
		Signature	
D .		Ü	
Date:		(type or print name of person certifying)	
(Com-1	ation of Filing Dequirements None	provisional Application [5_1]page 1	

(Completion of Filing Requirements — Nonprovisional Application [5-1]--page 1 PI-778631 v1 0215786-0010

DECLARATION OR OATH

II. 🔀	No declaration or oath was filed. Enclosed is the original declaration or oath for this application.		
NOTE:	If the correct inventor or inventors are not named on filing a nonprovisional application under § 1.53(b) without an executed oath or declaration under § 1.63, the later submission of an executed oath or declaration under § 1.63 during the pendency of the application will act to correct the earlier identification of inventorship. 37 C.F.R. § $1.48(f)(1)$.		
	OR		
	The declaration or oath that was filed was determined to be defective. A new original oath or declaration is attached.		
NOTE:	For surcharge fee for filing declaration after filing date complete item VI(3) below.		
NOTE:	"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 C.F.R. 1.63:		
	"(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g., 08/123,456);		
	"(2) name of inventor(s), serial number and filing date;		
	"(3) name of inventor(s) and attorney docket number which was on the specification as filed;		
	"(4) name of inventor(s), title which was on the specification as filed and filing date;		
	"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or		
	"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."		
	Notice of Jul. 13, 1995 (1177 O.G. 60); M.P.E.P. § 601.01(a), 6th ed., rev. 3.		
NOTE:	Another minimum found acceptable in the declaration is the filing date (i.e., date of express mail) and the express mail number, useful where the serial number is not yet known. But note the practice where the express mail deposit is a Saturday, Sunday or holiday within the District of Columbia. 37 C.F.R. 1.10(c).		
	(complete (c) or (d), if applicable)		
Attached	l is a		
(c) 🛚	Statement by a registered attorney that the application filed in the PTO is the application that the inventor executed by signing the declaration.		
(d) 🗌	Statement that the "attached" specification is a copy of the specification and any amendments thereto that were filed in the PTO to obtain the filing date.		
	AMENDMENT CANCELLING CLAIMS		
ш. 🗆	Cancel claims inclusive.		

TRANSMITTAL OF ENGLISH TRANSLATION OF NON-ENGLISH LANGUAGE PAPERS

IV.	Submitted herewith is an English translation of the non-English language application papers as originally filed. Also submitted herewith is a statement by the translator of the accuracy of the translation. It is requested that this translation be used as the copy for examination purposes in the PTO.		
NOTE: F	or fee processing a non-English application, complete item VI(5) below.		
NOTE: A	non-English oath or declaration in the form provided by the PTO need n	ot be translated. 37 C.F.R. 1.69(b).	
	SMALL ENTITY STA	ATUS	
v. 🗆	A statement that this filing is by a small entity is here the rule change effective September 8, 2000, 65 Fed.		
	COMPLETION FEES		
VI.			
WARNING: Failure to submit the surcharge fees where required will cause the application to become aband 37 C.F.R. 1.53.		the application to become abandoned.	
NOTE: F	For effect on fees of failure to establish status, or change status, as a sma	ll entity, see 37 C.F.R. 1.28(a).	
1. Filing	g fee		
	original patent application (37 C.F.R. 1.16(a)—\$740.00; Small entity—\$370.00)\$		
	design application (37 C.F.R. 1.16(f)—\$320.00; small entity—\$160.00)	\$	
		\$	
2. Fees	for claims		
	each independent claim in excess of 3 (37 C.F.R. 1.16(b)—\$84.00; small entity—\$42.00)	\$	
	each claim in excess of 20 (37 C.F.R. 1.16(c)—\$18.00; small entity—\$9.00)	\$	
	multiple dependent claim(s) (37 C.F.R. 1.16(d)—\$270.00; small entity—\$135.00)	\$	

late payment of filing fee and/or late filing of original declaration or oath (37 C.F.R. 1.16(e)—\$130.00; small entity Even where a facsimile declaration or oath signed it		
late filing of original declaration or oath (37 C.F.R. 1.16(e)—\$130.00; small entity		
(37 C.F.R. 1.16(e)—\$130.00; small entity	—\$65.00); \$ <u>130.0</u>	
Even where a facsimile declaration or oath signed i		00
Even where a facsimile declaration or oath signed by the inventor(s) was part of the originally filed papers, the surcharge fee is required.		
If both the filing fee and declaration or oath were missing from the original papers, only one surcharge fee for both need be paid. 37 C.F.R. 1.16(e).		
Petition and fee for filing by other than all the inventors or a person not the inventor (37 C.F.R. 1.17(i) and 1.47—\$130.00)		
specification in a non-English language		
Fee for processing and retention of application (37 C.F.R. 1.21(l) and 1.53(d)—\$130.00)	ation \$	
Assignment (See "ASSIGNMENT COVE	R SHEET".)	
failing to complete the application pursuant to 37 C 1.53 and 1.78 indicate that in order to obtain the be	C.F.R. 1.53(f) and this, as well as, the enefit of a prior U.S. application, et	he changes to 37 C.F.R. ither the basic filing fee
Total completion fees	\$	130.00
EXTENSION	OF TIME	
(complete	(a) or (b), as applicable)	
The proceedings herein are for a patent ap	plication, and the provisions	of 37 C.F.R. 1.136(a) apply
(a) Applicant petitions\ for an extension of time, the fees for which are set out in 37 C.F.R. 1.17(a)(1)-(4), for the total number of months checked below:		
Extension (months)	Fee for other than small entity	Fee for small entity
one month two months three months four months five months	\$ 110.00 \$ 400.00 \$ 920.00 \$1,440.00 \$1,960.00	\$ 55.00 \$200.00 \$460.00 \$720.00 \$980.00
	Petition and fee for filing by other than all or a person not the inventor (37 C.F.R. 1.11.47—\$130.00) Fee for processing an application filed wit specification in a non-English language (37 C.F.R. 1.17(k) and 1.52(d)—\$130.00) Fee for processing and retention of application (37 C.F.R. 1.21(l) and 1.53(d)—\$130.00) Assignment (See "ASSIGNMENT COVE 37 C.F.R. 1.21(l) establishes a fee for processing and failing to complete the application pursuant to 37 C.1.53 and 1.78 indicate that in order to obtain the boar the processing and retention fee of § 1.21(l) with a complete the application fees EXTENSION (complete The proceedings herein are for a patent application pursuant to 37 C.5 and 1.78 indicate that in order to obtain the boar the processing and retention fee of § 1.21(l) with a completion fees EXTENSION (complete The proceedings herein are for a patent application pursuant to 37 C.5 and 1.78 indicate that in order to obtain the boar the processing and retention fee of § 1.21(l) with a complete of the processing and retention fee of § 1.21(l) with a complete of section of the processing and retention fee of § 1.21(l) with a complete of section of the processing and retention fee of § 1.21(l) with a complete of section of the processing and retention fee of § 1.21(l) with a complete of section of the processing and retention fee of § 1.21(l) with a complete of section of the processing and retention of application pursuant to 37 C.F.R. 1.21(l) establishes a fee for processing and retention of application pursuant to 37 C.F.R. 1.21(l) establishes a fee for processing and retention of application pursuant to 37 C.F.R. 1.21(l) establishes a fee for processing and retention of application pursuant to 37 C.F.R. 1.21(l) establishes a fee for processing and retention of application pursuant to 37 C.F.R. 1.21(l) establishes a fee for processing and retention of application pursuant to 37 C.F.R. 1.21(l) establishes a fee for processing and retention of application pursuant to 37 C.F.R. 1.21(l) establishes a fee	Petition and fee for filing by other than all the inventors or a person not the inventor (37 C.F.R. 1.17(i) and 1.47—\$130.00) \$

	If an additional extension of time is required, please consider this a petition therefor. (check and complete the next item, if applicable)	
	An extension for months has already been secured, and the fee paid therefor of \$ is deducted from the total fee due for the total months of extension now requested.	
	Extension fee due with this request §_	
	or	
(b) 🛚	Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.	
	TOTAL FEE DUE	
VIII.		
	The total fee due is	
	Completion fee(s) $$\underline{130.00}$ Extension fee (if any) $$\underline{0}$	
	Total Fee Due \$_130.00	
	PAYMENT OF FEES	
IX.		
\boxtimes	Enclosed is a check in the amount of \$_130.00	
	Charge Account No in the amount of \$ A duplicate of this request is attached.	
NOTE:	Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. 1.22(b).	
	Please charge Account No. <u>11-1110</u> for any fees that may be due by this paper.	
	AUTHORIZATION TO CHARGE ADDITIONAL FEES	
х.		
WARN	NG: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges if extra claims are authorized.	
t	"Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable ime, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).	
[The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper and during the pendency of this application to Account No. 11-1110	

(Completion of Filing Requirements — Nonprovisional Application [5-1]—page 5

		3/ C.F.K. 1.10(a)	, (i) or (g) (filing fees)
	\boxtimes	37 C.F.R. 1.16(b)	, (c) and (d) (presentation of extra claims)
NOTE:	only be paid or these by the PTO in any	e claims cancelled by a notice of fee deficiency	ple dependent claims not paid on filing or on later presentation must amendment prior to the expiration of the time period set for response of (37 C.F.R. 1.16(d)), it might be best not to authorize the PTO to by when dealing with amendments after final action.
		•	(e) (surcharge for filing the basic filing fee and/or late later than the filing date of the application)
	\boxtimes	37 C.F.R. §§ 1.17	7(a)(1)-(5) (extension fees pursuant to § 1.136(a))
	\boxtimes	37 C.F.R. 1.17 (a)	pplication processing fees)
	reply, requiring a incorporating a petit required fees, fees u for an extension of to paragraph for its ti constructive petition	petition for an extens tion for extension of tin inder § 1.17, or all requi time in any concurrent of imely submission. Sub for an extension of time	application that is an authorization to treat any concurrent or future sion of time under this paragraph for its timely submission, as ne for the appropriate length of time. An authorization to charge all uired extension of time fees will be treated as a constructive petition or future reply requiring a petition for an extension of time under this smission of the fee set forth in § $1.17(a)$ will also be treated as a e in any concurrent reply requiring a petition for an extension of time ion." $37 \text{ C.F.R. } \S 1.136(a)(3)$.
			(issue fee at or before mailing of Notice of Allowance, C.F.R. 1.311(b))
NOTE:		sue fee will be automati	fee to a deposit account has been filed before the mailing of a Notice ically charged to the deposit account at the time of mailing the notice
NOTE:	in the application 1.28(b): (a) notifica	prior to paying, or at prion of change of statu	fany change in loss of entitlement to small entity status must be filed the time of paying issue fee" From the wording of 37 C.F.R. is must be made even if the fee is paid as "other than a small entity" ange is to another small entity.
			SIGNATURE OF PRACTITIONER
Reg. N	lo. 40,016		<i>V</i>
			Jesse A. Hirshman (type or print name of practitioner)
Tel N	o.: (412) 355-896	56	Kirkpatrick & Lockhart LLP
1 OI. IN	O., (412) 333-090		P.O. Address
			Henry W. Oliver Building
			535 Smithfield Street
			Pittsburgh, PA 15222-2312
Custor	ner No.		